

7th International Workshop on Plasma Sciencetech for All Something (PLASAS-7)

November 6 – 8, 2015, Morioka, Japan



Main Theme: Plasma basis and applications

- Hosting: PLASAS-7 Executive Committee
- Joint Hosting: Fundamentals and Materials Society,
The Institute of Electrical Engineers of Japan
IEEE Japan Chapter (NPS-05)
Plasma Life Science and Technology Group,
Soft-Path Engineering Research Center (SPERC), Iwate University
- Sponsorship ASTECH Corporation
Keisoku Engineering System Co., Ltd.
KATAGIRI ENGINEERING CO., Ltd.
- Financial Support:
IEEE Japan Chapter (NPS-05)

PLASAS-7 Committee

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OUYANG Jiting	(Co-Chair)	Beijing Institute of Technology, China

• Advisory Committees

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WAKI Hiroyuki	Iwate University, Japan
OKUMURA Takamasa	Iwate University, Japan
TAKAHASHI Katsuyuki	Iwate University, Japan

Workshop Venue

Techno Hall, Faculty of Engineering, Iwate University,
4-3-5, Ueda, Morioka, Iwate, 020-8551 Japan

Registration fee: 25,000 JPY

PLASAS-7 PROGRAM

November 6 (Friday)

19:00 – Welcome Dinner
(Beer Restaurant ARIV Morioka)

November 7 (Saturday)

Venue Techno Hall, Faculty of Engineering, Iwate University

9:00 – 9:05 Opening Address

9:05 – 9:35 KOUSAKA Hiroyuki, *Nagoya University*
“Tribological properties of Si-DLC deposited by ultra-high speed coating method with microwave assistance”

9:35 – 10:05 ICHIKI Ryuta, *Oita University*
“Improving Metal Surface with Nitrogen-Based Atmospheric-Pressure Plasma”

10:05 – 10:35 TAKAHASHI Kazunori, *Tohoku University*
“Neutral-depletion-induced plasma structure and momentum transport in a helicon source”

10:35 – 10:45 Coffee Break

10:45 – 11:15 KIM Jaeho, *National Institute of Advanced Industrial Science and Technology (AIST)*
“Advanced microwave plasma sources based on microstrip line”

11:15 – 11:45 OHTA Takayuki, *Meijo University*
“Novel substrate temperature measurement using optical interferometry”

11:45 – 12:15 ODA Akinori, *Chiba Institute of Technology*
“Computational study on fundamental properties in non-thermal atmospheric pressure plasmas”

12:15 – 13:00	Lunch
13:00 – 13:30	AKATSUKA Hiroshi, <i>Tokyo Institute of Technology</i> “Temperature and Density Monitoring of Argon Plasma by Intensity Ratio Measurement of Ar I lines by Collisional Radiative Model”
13:30 – 14:00	ZHONG Xiaoxia, <i>Shanghai Jiaotong University</i> “Synthesis of nanoparticles by using atmospheric microplasma” (Invited)
14:00 – 14:30	WANG Liyan, <i>Tsinghua University</i> “ARTP - A novel powerful Non-GMO mutation breeding method” (Invited)
14:30 – 15:00	TONG Lizhu, <i>Keisoku Engineering System Co., Ltd.</i> “Numerical investigation of microwave microstrip plasma source”
15:00 – 15:10	Coffee Break
15:10 – 15:15	TAKAKI Koichi, <i>Iwate University</i>
15:15 – 15:40	AKIYAMA Masahiro, <i>Iwate University</i> “Study of Bubble behaviors after Electrical Discharges in Water”
15:40 – 16:05	TAKAHASHI Katsuyuki, <i>Iwate University</i> “Water remediation using discharge plasma inside bubble”
16:05 – 16:30	OKUMURA Takamasa, <i>Iwate University</i> “Conformational Change of Protein with AC Electric Field for Keeping Freshness of Marine Products”
16:30 – 16:55	WAKI Hiroyuki, <i>Iwate University</i> “Damage Detection in Plasma Sprayed Coatings under Thermal Shock Condition using Laser Speckle Strain”

16:55 – 17:20	MUKAIGAWA Seiji, <i>Iwate University</i> “Self-organization in dielectric barrier discharge and control of hexagonal structures”
18:00 – 20:30	Banquet (Restaurant ONINOTE)

November 8 (Sunday)

Venue Techno Hall, Faculty of Engineering, Iwate University

10:00 – 11:30	Lab Tour
11:30 – 12:00	Committee meeting
12:00 – 12:10	Closing
12:10 –	Excursion